



Navy Environmental Quality Fact Sheet



Do you incinerate classified materials?

Would you like to improve this process in the following areas?

- **Meet environmental compliance regulations.** Reduce air emissions associated with incineration. Media areas are air and solid waste.
- **Improve workers' safety and health.** Eliminate the generation of hazardous air pollutants.
- **Increase productivity.** Increase control and reduce custodial requirements through on-site destruction of classified material.
- **Save money.** Reduce operating costs associated with incineration.



Solid Waste Security Disintegrator

*Solid Waste Security Disintegrators can be used as an alternative to incineration for destruction of classified materials. Large volumes of classified material are typically destroyed by incineration. However, burning paper, magnetic media, and other classified materials in incinerators produces hazardous air emissions and toxic gases. A disintegrator works like a heavy-duty paper shredder. The cutting mechanism typically consists of 2 to 5 knives mounted on a solid steel rotor that pass two stationary bed knives at 500 to 600 rpm. The feedstock is cut until it is small enough to fall through a perforated screen beneath the cutting rotor. The screens are interchangeable so that you can easily change the degree of destruction with particle sizes ranging from 3/32" to 3" providing process rates from 50 to 6,000 lbs per hour. A vacuum unit draws the shredded waste from the cutting chamber and deposits it in a collection bin or waste compactor for baling of wastes. **This technology is available through the Navy Pollution Prevention Equipment Program.***

How can you achieve these improvements?

Use a Solid Waste Security Disintegrator.

How does this method work?

Unlike document shredders, which cut only paper, disintegrators are designed to destroy virtually any bulk material (paper, ID badges, CD ROM, floppy disks, credit cards, etc.) into irregularly shaped particles that prevent reconstruction.

How will this method save you money?

On-site disintegration can reduce transportation, labor, and operational costs when compared to incineration.



How can this technology eliminate or reduce pollution?

Using a Solid Waste Security Disintegrator reduces air emissions associated with incineration of classified materials. Implementation will result in the following pollution reductions:

- Reduce the emissions of hazardous air pollutants from incineration.
- Reduce the quantity of solid waste transported off-site from Navy installations.

Which applications can benefit most from this technology?

Solid Waste Security Disintegrators can be used at any installation/activity that currently uses an incinerator or outside contractor to destroy its classified material.

How can this technology reduce regulatory compliance concerns?

The Solid Waste Security Disintegrator eliminates the use of natural gas in incinerators, reduces air emissions, and may eliminate a permitted air source. Implementation will result in the following regulatory compliance benefits:

- May help reduce facility-wide hazardous or criteria air pollutant emissions below applicable major source thresholds.
- Reduction in natural gas usage may help facilities comply with the energy reduction and conservation requirements of Executive Order 13123.



Achieving Environmental Compliance Through Pollution Prevention

Every day the Navy faces the challenge of operating and maintaining the fleet while complying with environmental regulations. This burden can be reduced by using pollution prevention technologies and methods to reduce compliance requirements. This fact sheet is one in a series designed to encourage activities to use pollution prevention technologies and methods. The overall goal of this series is to promote sustained environmental compliance at the lowest life-cycle cost.

For additional information, contact:

Information on Solid Waste Security Disintegrators can be found on the Navy Pollution Prevention Equipment Program web site (**Web:** <http://141.150.233.37/p2/servlet/DocServlet?wDID=72>).

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